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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/616,020	07/09/2003	Daniel J. Mattson	285/536	1120		
	10.12.2003			EXAMINER		
BRINKS HOF P.O. BOX 1039	FER GILSON & LIONE	GIBSON, RANDY W				
CHICAGO, IL 60610			ART UNIT	PAPER NUMBER		
			2841			
			DATE MAILED: 10/12/2004	ς.		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	ition No.	Applicant(s)				
Office Action Summary		10/616	,020	MATTSON ET AL.	(cm)			
		Examin	er	Art Unit				
		Randy \	W. Gibson	2841				
Period fo	The MAILING DATE of this commun or Reply	nication appears on (the cover sheet wit	h the correspondence add	ress			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MASSISSISSISSISSISSISSISSISSISSISSISSISSI	MAILING DATE OF sof 37 CFR 1.136(a). In no munication. tatutory period will apply and y will, by statute, cause the a	THIS COMMUNIC event, however, may a re- d will expire SIX (6) MONT application to become ABA	ATION. ply be timely filed CHS from the mailing date of this con ANDONED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) fil	ed on <i>August 25</i> , 20	005.					
·	This action is FINAL . 2b)⊠ This action is non-final.							
,—	· · · · · · · · · · · · · · · · · · ·							
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) 1-68 is/are pending in the	application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-68</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9)□	The specification is objected to by the	ne Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
,,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including				R 1.121(d).			
11)	The oath or declaration is objected							
Priority (under 35 U.S.C. § 119							
12)□	Acknowledgment is made of a claim	for foreign priority	under 35 U.S.C. &	119(a)-(d) or (f).				
	☐ All b)☐ Some * c)☐ None of:	· · · · · · · · · · · · · · · · · · ·	and or or or or or o	(=) (=) (-)				
۵,	1. Certified copies of the priority	documents have b	een received.					
	2. Certified copies of the priority			oplication No				
	3. Copies of the certified copies				Stage			
	application from the Internati	•						
* 5	See the attached detailed Office acti	•		received.				
A44 - 1-	A(-)				•			
Attachmen	· ·		4) Tatonious S	ummany (PTO-413)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
3) X Infor	mation Disclosure Statement(s) (PTO-1449 o		· =	formal Patent Application (PTO	-152)			
Paper No(s)/Mail Date <u>4/22/04&12/15/03</u> . 6) Other:								

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-3, 6,11-16, 24, 25, 28, 30, 35, 37, 39-42, and 45 are rejected under 35 U.S.C. 102(b) as being anticipated by Thiele et al (US # 4,733,068). See column 3, lines 9-29; column 5, lines 15-37; and, column 6, lines 27-47. Although Thiele et al does not expressly disclose an adhesive, there must be something present to hold the elastic layers together.

Claim Rejections - 35 USC § 103

- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 5. Claims 4, 5, 7, 18-20, 22, 26, 31, 34, and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thiele et al (US # 4,733,068) in view of Fernald et al (US # 6,452,667) and Bennett et al (US patent application pub. # 2001/0054682 A1). Thiele et al does not disclose a stress relief. However, Fernald teach that it is known to place

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some slack in a fiber optic cable to allow for the cable to expand and contract without breaking the cable (Col. 4, lines 57-59). Therefore it would have been obvious to the ordinary practioner to provide the cables of Thiele with slack in them to allow the cables to expand.

As for claim 7, Bennett et al shows that is is known to cut trenches into a substrate to hold an optical cable (Fig. 1). Since Thiele already teaches cutting out vias to allow more light to pass between fibers, it would have been obvious to the ordinary practioner to cut out part of the foam pad to form preformed trenches to hold the fibers so that the layers of the foam pad fit together better.

6. Claims 8-10, 21, 27, 32, 33, 36, and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thiele et al in view of Fernald et al as applied to claims 4, 5, 7, 18-20, 22, 26, 31, 34, & 43 above, and further in view of Breton (US # 4,369,525), Simons (US Statutory Invention Registration # H322) and Verdiell et al (US # 5,870,417). Thiele does not disclose the "control sensor" for adjusting the light output of the array of optical weight sensors. However, it is known that the light output of a laser diode varies with temperature and age, and that it is known to built a laser diode with a built-in light sensor to enable regulation of the power to the laser diode as shown by the examples of Breton et al. (Col. 1, lines 34-51; Col. 6, lines 5-21) or Simons (Col. 3, lines 34-67; Col. 5, line 14 to col. 6, line 29). It would have been obvious to use this conventional type of feedback circuit in the device of Thiele for the same reason.

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As for the limitation of laser trimming the ends of the fiber optic cable, Verdiell et al teach that this is a known technique for trimming optical fiber (Col. 11, lines 53-62), and it would have been obvious to the ordinary practioner to use a known technique to form the device of Thiele based on its art recognized suitability for its intended purpose. See MPEP § 2144.07.

7. Claims 17, 23, 29, 38 and 46-68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuboki et al (US # 6,345,839) in view of Thiele et al (US # 4,733,068). Kuboki et al discloses an two dimensional array of pressure sensors arranged in a seat, and a air bag controller system that uses mage processing techniques to determine the shape of a seat occupant, and based on the shape and weight of the occupant, decide whether the occupant is a human or an object. Kuboki et al discloses the claimed invention except his array of sensors is based on a device that varies resistance with pressure, instead of using an optical pressure sensor array. Thiele et al shows that an optical pressure sensing array is the functional equivalent to an array of variable resistance pressure sensors. It would have been obvious to substitute the optical pressure sensor array mat of Thiele for the variable resistance pressure sensor array mat of Kuboki et al based on its known suitability for its intended use. See MPEP §§ 2144.06 & 2144.07.

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Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randy W. Gibson whose telephone number is (571) 272-2103. The examiner can normally be reached on Mon-Fri., 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Randy W. Gibson Primary Examiner Art Unit 2841 Page 5